

A study for decision making problems by using interval soft sets

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The soft set theory, initiated by Russian researcher Molodtsov in 1999, is one of the branches of mathematics. The theory aims to describe phenomena and concepts of an ambiguous, vague, undefined and imprecise meaning. The soft set theory has a rich potential for applications in several directions, a few of which were demonstrated by Molodtsov in his first work [1]. After Molodtsov's work, many researcher concerned with soft sets and presented an application of soft sets in a decision making problem. Interval set theory and soft set theory are mathematical tools for dealing with uncertainty information. So Xiaohong Zhang [2] introduced the new notion of interval soft sets as a combination of interval set and soft set.

In this paper we study interval soft set theory for dealing with uncertainty information. By using the concepts of interval choice values, we apply the theory of interval soft sets to solve a soft max-min decision making for a multiple choose selection.

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